ANTIMONY - POND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Back							
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Antimony	0.795	0.618	8	0.953	0.878	10	

Calculated Difference = 0.158

Standard Error of the Difference = 0.31552261

Degree of Freedom = 16

t = 0.500756506

0.3116

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

ARSENIC - POND SEDIMENT								
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background		
Compound	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples							
Arsenic	1.735	2.233	8	3.438	1.792	10		

Calculated Difference = 1.703

Standard Error of the Difference = 0.783860649

Degree of Freedom = 16

t = 2.172580039

0.0226

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically less than background mean Data sets significantly different = Yes

BARIUM - POND SEDIMENT								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
•	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Barium	198.6	119.4	8	333.1	288.1	10		

Calculated Difference = 134.5

Standard Error of the Difference = 95.59691633

Degree of Freedom = 16

t = 1.406949148

0.0893

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site surface soil mean is not statistically less than background mean Data sets significantly different = No

CADMIUM - POND SEDIMENT								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Cadmium	0.147	0.112	8	0.0311	0.0398	10		

Calculated Difference = 0.1159 Standard Error of the Difference = 0.029938042

> Degree of Freedom = 16

t = 3.871328672

0.0007 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically greater than background mean Data sets significantly different = Yes

CHROMIUM - POND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Chromium	12.93	4.611	8	15.2	3.02	10	

Calculated Difference = 2.27

Standard Error of the Difference = 1.470614137

Degree of Freedom = 16

t = 1.543572812

0.0711

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean Data sets significantly different = No

COPPER - POND SEDIMENT						
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Bac						Number of Background
Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Copper	15.2	7.421	8	12.12	3.955	10

Calculated Difference = 3.08

Standard Error of the Difference = 2.191731568

Degree of Freedom = 16

t = 1.40528158

0.0896

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically greater than background mean Data sets significantly different = No

LEAD - POND SEDIMENT								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Lead	17.54	7.076	8	13.43	1.547	10		

Calculated Difference = 4.11

Standard Error of the Difference = 1.784545276

Degree of Freedom = 16

t = 2.303107719

0.0175

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site surface soil mean is statistically greater than background mean Data sets significantly different = Yes

LITHIUM - POND SEDIMENT								
Compound  Site Conc.  Site Conc.  Number of Site  Background  Background Conc.  Number of Background  Compound  Standard Position								
	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples							
Lithium	18.48	4.071	8	21.14	5.166	10		

Calculated Difference = 2.66

Standard Error of the Difference = 1.908832199

Degree of Freedom = 16

t = 1.393522176

0.0912

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

MANGANESE - POND SEDIMENT								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Manganese	487.6	124.2	8	377.4	93.75	10		

Calculated Difference = 110.2

Standard Error of the Difference = 42.26460503

Degree of Freedom = 16

t = 2.607382701

0.0095

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site surface soil mean is statistically greater than background mean Data sets significantly different = Yes

MOLYBDENUM - POND SEDIMENT								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
•	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Molybdenum	0.146	0.191	8	0.522	0.0739	10		

Calculated Difference = 0.376

Standard Error of the Difference = 0.051885086

Degree of Freedom = 16

t = 7.24678375

0.0000 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically less than background mean Data sets significantly different = Yes

ZINC - POND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backg							
- Compound	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						
Zinc	332.3	407.7	8	247	364.6	10	

Calculated Difference = 85.3

Standard Error of the Difference = 151.8911495

Degree of Freedom = 16

t = 0.561586375

0.2910

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically greater than background mean Data sets significantly different = No